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TITLE : FLUORESCENT PHOTODEVELOPING FILM

ABSTRACT : PURPOSE: To facilitate the detection of a thin residual film produced by incomplete development by making the concn. of a fluorescent substance in a photodeveloping film different between the front and rear sides of the film.

CONSTITUTION: The concn. of a fluorescent substance such as 7-dimethylamino-4-methylcoumarin in a photosensitive film is made different between the front and rear sides of the film. The film may be obtd. by casting a soln. of a photopolymerizable resin contg. a fluorescent substance on a releasing film to form a photosensitive layer A, similarly forming a photosensitive layer B with a resin soln. contg. no fluorescent substance, placing the layers A, B opposite to each other and press-bonding them together. The layer A side of the film is stuck on a substrate and a relief image is formed. The presence of a residual film is judged by detecting fluorescence on the surface of the substrate except the relief image part.

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